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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS

FEBRUARY, 1930

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A copy of any of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

☞ Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

House ants: Kinds and methods of control. C. L. Marlatt, Bureau of Entomology. 15 p., figs. 5. (Farmers' Bulletin 740 F., revised.) Price, 5¢.

Discusses the biology and control of the more common ant pests of houses and lawns. Among the control measures is the formula for poisoned bait containing thallium sulphate, which is of special interest.

Pit silos. T. Pryse Metcalfe and George A. Scott, Bureau of Animal Industry. 8 p., figs. 4. (Farmers' Bulletin 825 F., revised.) Price, 5¢.

The construction of pit silos is recommended only where a combination of soil and climatic conditions exists, such as is found in the Southwest. This bulletin is intended for distribution in sections where building materials are scarce and high priced.

Dourine of horses. John R. Mohler and H. W. Schoening, Bureau of Animal Industry. 10 p., figs. 5. (Farmers' Bulletin 1146 F, revised.) Price, 5¢.

Describes in detail the cause, symptoms, and transmission of the disease, together with its course and outcome. Little benefit can be obtained from medicinal treatment. Sanitary measures for the eradication of dourine are suggested.

Control of insect pests in stored grain. E. A. Back and R. T. Cotton, Bureau of Entomology. 30 p., figs. 34. (Farmers' Bulletin 1483 F., revised). Price, 10¢.

Acquaints the farmer or grain dealer with the characteristics of each of a number of fumigants, so that he can select the one best suited to the particular conditions. It shows how the fumigation problem is being solved in the farmer's bin or granary, in the box car or ship's hold, and in the elevator.

Feeding chickens. M. A. Jull and A. R. Lee, Bureau of Animal Industry. 22 p., figs. 8. (Farmers' Bulletin 1541 F., revised.) Price, 5¢.

Feed is the most important cost factor in raising poultry. Therefore the selection of feeds and the method of feeding are very important matters. This bulletin discusses the relative value of the different nutrients and outlines methods of feeding chickens for different purposes.

Sorgo for sirup production: Culture, harvesting, and handling. H. B. Cowgill, Bureau of Plant Industry. 38 p., figs. 12. (Farmers' Bulletin 1619 F.) Price, 10¢.

Contains a discussion of the utilization of by-products, and a description of the diseases and insect pests liable to attack sorgo, together with suggested methods for their control. Intended primarily for sorgo growers and sorgo-sirup producers.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Fires on farms. Harry E. Roethe, Bureau of Chemistry and Soils. 5 p., figs. 5. (Leaflet 44 L.) Price, 5¢.

Enumerates the principal causes of farm fires and outlines practical methods to prevent them. These fires are held responsible for more than two-thirds of the estimated annual loss of $150,000,000.

Small trees wasteful to cut for saw timber. W. W. Ashe, Forest Service. 5 p., figs. 2. (Leaflet 55 L.) Price, 5¢.

Contains information obtained by studying the logs handled in a regular logging operation and combining figures for enough logs in each case to represent a tree. By timing the different steps from felling the trees to sawing the logs into lumber, it was found that far more time is required to handle enough small logs than to handle a sufficient number of large logs to produce the same quantity.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

Chemistry and analysis of the permitted coal-tar food dyes Ponceau SX, sunset yellow FCF, and brilliant blue FCF. O. L. Evenson and H. T. Herrick, Food, Drug, and Insecticide Administration. 8 p. (Department Bulletin 1390 D., Supplement 1.) Price, 5¢.

These three colors have been approved and added to the list of permitted coal-tar food colors since December, 1927. The chemistry and analytical methods for these new dyes, as well as a revised method for lead, are contained in this publication.

DEPARTMENT CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Department Bulletin series.

Federal legislation, regulations, and rulings affecting land-grant colleges and experiment stations. Compiled in the Office of Experiment Stations and the Office of Cooperative Extension Work. 60 p. (Department Circular 251 C., revised.) Price, 10¢.

How to conduct milk and cream contests. Ernest Kelly and R. J. Posson. Revised by C. J. Babcock and C. S. Leete, Bureau of Dairy Industry. 22 p., figs. 5. (Department Circular 384 C, revised.) Price, 5¢.

These contests may be classified as (1) those in which the samples are submitted voluntarily, and (2) surprise contests in which samples are unexpectedly collected from the distributor or producer. This bulletin tells how samples should be prepared, packed, shipped, and handled at destination. It also describes the various methods of analyzing and testing the samples.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Flax cropping in mixture with wheat, oats, and barley. A. C. Arny, Minnesota Agricultural Experiment Station; T. E. Stoa, North Dakota Agricultural Experiment Station; Clyde McKee, Montana Agricultural Experiment Station; and A. C. Dillman, Bureau of Plant Industry. 47 p., figs. 10. (Technical Bulletin 133 T.) Price, 10¢.

Reports experiments conducted over a wide area during a period of four or more years, and the results indicate to what extent and in what areas this mixed cropping is likely to be successful.

Field studies on the rust resistance of oat varieties. M. N. Levine, E. C. Stakman, and T. R. Stanton, Bureau of Plant Industry. 36 p., figs. 4. (Technical Bulletin 143 T.) Price, 10¢.

In the Southern States the two rusts of oats develop independently of their alternate hosts and the production of rust-resistant varieties assumes paramount importance. In the North, the barberry eradication campaign is far from completion and there is no organized attempt to eradicate buckthorns. Hence the importance of breeding rust-resistant varieties for Northern States also.

The flow of water in riveted steel and analogous pipes. Fred C. Scobey, Bureau of Public Roads. 136 p., figs. 10, pls. 6. (Technical Bulletin 150 T.) Price, 30¢.

Gives the results of 98 tests made by the author on 29 riveted steel pipes ranging in diameter from 4 to 168 inches; also 1,080 tests made by other engineers on 169 reaches of pipe. Of interest chiefly to hydraulic engineers and other officials designing and operating metal pipe lines (except cast iron) used for irrigation, power, and other purposes.

Selective logging in the northern hardwoods of the Lake States. Raphael Zon and R. D. Garver, Forest Service. 47 p., figs. 5. (Technical Bulletin 164 T.) Price, 10¢.

Presents the comparative results of selective and clear cutting on typical lumber operations in the northern hardwood type of timber in the Lake States. Of interest to timberland owners not only in these particular forests but in other hardwood regions as well.

The kiln drying of southern yellow pine lumber. L. V. Teesdale, Forest Service. 67 p., figs. 9, pls. 9. (Technical Bulletin 165 T.) Price, 20¢.

Shows (1) how to control drying conditions in the kiln, (2) how the proper method of handling stock before and after kiln drying, and (3) how observance of proper kiln operation and handling methods is economically advantageous.

The application of silviculture in controlling the specific gravity of wood. Benson H. Paul, Forest Service. 20 p., fig. 1, pls. 12. (Technical Bulletin 168 T.) Price, 15¢.

Gives the results of silvicultural studies which show that the specific gravity of the woods studied may be modified by controlling local factors which affect the growth either of forest stands or of individual forest trees, so that it becomes possible, within natural limits, to regulate the specific gravity of wood according to the particular use in view.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

The Wonderful variety of pomegranate: Composition, commercial maturity, and by-products. E. M. Chace, C. G. Church, and H. D. Poore, Bureau of Chemistry and Soils. 16 p., fig. 1. (Circular 98 C.) Price, 5¢.

This variety brought such highly satisfactory returns to the growers that supply of fruit has outgrown demand, with the usual disastrous effect on price. To correct market conditions, growers have adopted standards regulating quality and maturity of fruit offered for shipment and are attempting to regulate distribution.

The normal breeding season and gestation period of martens. Frank G. Ashbrook and Karl B. Hanson, Bureau of Biological Survey. 7 p. (Circular 107 C.) Price, 5¢.

Describes the breeding experiments with martens conducted by the Biological Survey since 1913. Brief accounts are given of research in other countries.

Parasitism of the Mediterranean fruit fly in Hawaii, 1922–1924. H. F. Willard, Plant Quarantine and Control Administration, and T. L. Bissell, Bureau of Entomology. 12 p. (Circular 109 C.) Price, 5¢.

The use of introduced insect parasites has been found a more promising control measure under the peculiar horticultural conditions of Hawaii than are the artificial control methods of spraying and the destruction of infested fruits employed in commercial fruit-growing areas in certain other parts of the world.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Forest plantations at Biltmore, North Carolina. Ferdinand W. Haasis, Forest Service. 30 p., fig. 1, pls. 11. (Miscellaneous Publication M. 61.) Price, 15¢.

Gives the history and a statistical summary of the plantations, planting costs, results with species planted, discussion of factors affecting success and of thinning operations, and some comment on the work as a guide to future planting.

Directory of field activities of the Bureau of Plant Industry. 108 p., fig. 1. (Miscellaneous Publication 64 M.) Price, 15¢.

A list of the locations where the bureau carries on experimental activities, together with a description of those activities, names of persons in charge, and directions for reaching each place. Of particular interest to department employees and cooperating individuals and agencies.

List of Bulletins of the Agricultural Experiment Stations for the calendar years 1927 and 1928. Catherine E. Pennington, Office of Experiment Stations. 78 p. (Miscellaneous Publication 65 M.) Price, 15¢.

The bulletins are listed numerically under the stations,, which are in alphabetical arrangement. An index of authors and one of subjects are included. This publication is a continuation of Department Bulletin 1199 and its three supplements.

The 1929 outbreak of foot-and-mouth disease in southern California. John R. Mohler and Rudolph Snyder, Bureau of Animal Industry. 16 p., figs. 10. (Miscellaneous Publication 68 M.) Price, 5¢.

Describes in detail this outbreak and the steps taken to eradicate the disease. The successful outcome was due to early discovery; assistance by local agencies; favorable attitude of the people; and assistance of the press in withholding sensational articles.

The agricultural outlook for 1930. Prepared by the staff of the Bureau of Agricultural Economics, assisted by representatives of the Agricultural Colleges and Extension Services and the Federal Farm Board. 64 p. (Miscellaneous Publication 73 M.) Price, 10¢.

Assembles the world-wide and nation-wide supply, demand, and price facts, which are not readily available to farmers. Shows as nearly as possible the probable trend of conditions toward the time when the products of the next season's operations will be marketed.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

California, the Oroville area. Price, 25¢.
Iowa, Carroll County. Price, 15¢.
Iowa, Chickasaw County. Price, 15¢.
Nebraska, Nuckolls County. Price, 20¢.
South Dakota, Hyde County. Price, 20¢.
Wisconsin, Calumet County. Price, 25¢.

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SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Regulations for warehousemen storing nuts. 21 p. (S. R. A., B. A. E. 119.) Price, 5¢.

Regulations governing the preparation, sale, barter, exchange, shipment, and importation of viruses, serums, toxins, and analogous products intended for use in the treatment of domestic animals. Effective on and after April 1, 1930.) Bureau of Animal Industry, 1 p. (Amendment 6 to B. A. I. Order 276.)

Index to Service and Regulatory Announcements, Bureau of Animal Industry, 1929. pp. 115–117. Price, 5¢.

Information, instructions, rulings, etc., for January, concerning the work of the Bureau of Animal Industry. 8 p. (S. R. A., B. A. I. 273.) Price, 5¢.

Notices of Judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration. N. J., F. D. 16551–16575, pp. 357–379; 16576–16600, pp. 381–398.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 14, No. 2. February 1, 1930. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.[1]

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 16, No. 11. November, 1929.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or $4 a year.[1] Not for general distribution.

Daily Weather Maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price, daily, except Sundays and holidays, 25¢ a month, $2.50 a year; daily, including Sundays and holidays, 30¢ a month, $3 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, $6.65 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, $2 a year.[1]

Journal of Agricultural Research. Vol. 40, No. 2. January 15, 1930; No. 3, February 1, 1930. Illus. Price, 20¢ a copy; $4 a year, domestic; $5.25 a year, foreign.[1] Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

Monthly Weather Review. Vol. 57, No. 11. November, 1929. Illus. Price 15¢ a copy; $1.50 a year, domestic; $2.25 a year, foreign.[1] Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

The Official Record. Vol. 8, Index: Vol. 9, Nos. 6–9. February 6, 13, 20, 27, 1930. Price, 5¢ a copy; 50¢ a year, domestic; $1.10 a year, foreign.[1]

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Public Roads. Vol. 10. Price 10¢ a copy; $1 a year domestic; $1.50 a year foreign.[1]

No. 12, February, 1930. Illus. *Contents:* (1) The Arlington curing experiments. (2) Need for simplification of sizes in sand and gravel industry.

Snow and Ice Bulletin. Nos. 8–12. February 5, 12, 19, 26, 1930. 1 p., map. 50¢ a year.[1] Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular weekly Bureau and selected cooperative stations. As far as practicable all reports of snow and ice are given.

Weekly weather and crop bulletin. Nos. 5–8. February 4, 11, 18, 25, 1930. Price, 50¢ a year, domestic; $1 a year, foreign.[1]

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

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[1] Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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